



207c

PATENT
Atty. Docket No.: AHA-03400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	) Group Art Unit: 2133
William H. Thesling III et al.	) Examiner: Chung, Phung M.
Patent No.: 7,117,418 B2	) REQUEST FOR CERTIFICATE OF
Serial No.: 09/954,698	) CORRECTION OF PATENT FOR
Filed: September 11, 2001	) U.S.P.T.O. MISTAKES UNDER 37 CFR
Issued: October 3, 2006	) §1.322
For: SOFT INPUT-SOFT OUTPUT	) 162 North Wolfe Road
FORWARD ERROR	) Sunnyvale, CA 94086
CORRECTION DECODING FOR	) (408) 530-9700
TURBO CODES	) Customer Number 28960

Attn: Decision and Certificate of Correction
Branch of the Patent Issue Division

Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

Sir:

Attached in duplicate is Form PTO-1050, with at least one copy being suitable for printing. The corrections stated in the attached Form PTO-1050 recite the corrections stated below.

Below, column and line numbers refer to U.S. Patent Number 7,117,418, titled "Soft Input-Soft Output Forward Error Correction Decoding For Turbo Codes," and issued October 3, 2006. Page and line numbers refer to the corresponding U.S. Patent Application Serial Number 09/954,698 (the '698 application), filed September 11, 2001.

Certificate
NOV 09 2006
of Correction

NOV 13 2006

**CORRECTION OF PATENT OFFICE'S
MISTAKES UNDER 37 C.F.R. §1.322**

The following are mistakes made by the U.S. Patent Office. The exact page and line number where the errors are shown correctly in the application file are given below.

In the Specifications

At column 5, line 45, please replace “(M0)+RM(M)+RV(M2)+RV(MX)” with - (M0)+RV(M1)+RV(M2)+RV(MX) - so that the corresponding phrase reads – RV(M0)+RV(M1)+RV(M2)+RV(MX); -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 10, line 11.

At column 6, line 1, please add a return between “222-230)+RV(MY);” and “RVO(M2)=DM2-DM0=DM” so that the corresponding phrase reads –
– blocks 222-230)+RV(MY);
RVO(M2)=DM2-DM0=DM(SCA)-DM(HDDV)=RV(M0)+RV(M1)+RV(M2)+
RV(MX); -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 10, line 29.

The phrase is shown correctly in the application mailed on September 11, 2001, on page 10, line 29.

At column 6, line 16, please replace “(M0)-RV(ML)-RV(M2)-RV(MX)” with - (M0)-RV(M1)-RV(M2)-RV(MX) - so that the corresponding phrase reads – -RV(M0)-RV(M1)-RV(M2)-RV(MX); -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 11, line 12.

At column 6, line 20, please replace “(M0)-RV(M)-RV(M2)-RV(MX)” with - (M0)-RV(M1)-RV(M2)-RV(MX) - so that the corresponding phrase reads – -RV(M0)-RV(M1)-RV(M2)-RV(MX); -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 11, line 16.

At column 6, line 22, please replace “(M0)-RV(M)-RV(M2)-RV(MX)” with - (M0)-RV(M1)-RV(M2)-RV(MX) - so that the corresponding phrase reads – -RV(M0)-RV(M1)-RV(M2)-RV(MX); -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 11, line 18.

NOV 13 2001

At column 6, line 48, please replace “(M0)-RV(ML)-(RV(M3))” with - (M0)-RV(M1)-
(RV(M3)) - so that the corresponding phrase reads – -RV(M0)-RV(M1)-(RV(M3)) or RV(M4), -.
The phrase is shown correctly in the application mailed on September 11, 2001, on page 12, line
8.

At column 6, line 51, please replace “(M0)-RV(M)-(RV(M3))” with - (M0)-RV(M1)-
(RV(M3)) - so that the corresponding phrase reads – -RV(M0)-RV(M1)-(RV(M3)) or RV(M4), -.
The phrase is shown correctly in the application mailed on September 11, 2001, on page 12, line
10.

At column 10, line 23, please replace “M4(position 12)” with - M4(position 12) - so that
the corresponding phrase reads – M4(position 12)=+0.3, -. The phrase is shown correctly in the
application mailed on September 11, 2001, on page 18, line 11.

At column 11, line 8, please replace “RVO(bit 4)-0.3+RV(4)=-0.3-0.9=-1.2” with -
RVO(bit 4)=-0.3+RV(4)=-0.3-0.9=-1.2 - so that the corresponding phrase reads – RVO(bit 4)=-
0.3+RV(4)=-0.3-0.9=-1.2; -. The phrase is shown correctly in the application mailed on
September 11, 2001, on page 19, line 17.

At column 18, line 23, please replace “330where” with - 330 where - so that the
corresponding phrase reads – Flow continues to a function block 330 where -. The phrase is
shown correctly in the application mailed on September 11, 2001, on page 31, line 16.

At column 18, line 65, please add - $RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J
is all other positions. - between “= $RV(M3) + RV(MY) + RV(M0) + RV(M1)$; and ” and “b) If
the minimum distance metric $DM0=DM(HDDV)$,” so that the corresponding phrase reads

– $= RV(M3) + RV(MY) + RV(M0) + RV(M1)$; and

$RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J is all other positions.

b) If the minimum distance metric $DM0=DM(HDDV)$, -.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 32, line 15.

At column 19, line 20, please add - $RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J
is all other positions. - between “= $RV(M3) + RV(MY) + RV(M0) + RV(M1)$; and” and “c) If
the minimum distance metric $DM0=DM(SCA)$, and” so that the corresponding phrase reads

– $= RV(M3) + RV(MY) + RV(M0) + RV(M1)$; and

NOV 13 2001

$RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J is all other positions.

c) If the minimum distance metric $DM0=DM(SCA)$, and –.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 32, line 30.

At column 19, line 41, please replace “ $= -RV(M3)$ ” with $= RV(M3)$ - so that the corresponding phrase reads $= RV(M3) + RV(MY) - RV(M2) - RV(MX)$; and –. The phrase is shown correctly in the application mailed on September 11, 2001, on page 33, line 14.

At column 19, line 43, please add $- RVO(J) = RV(J) + \gamma - RV(M2) - RV(MX)$, where J is all other positions. - above the line “d) If the minimum distance metric $DM0=DM(SCA)$, and” so that the corresponding phrase reads

– $RVO(J) = RV(J) + \gamma - RV(M2) - RV(MX)$, where J is all other positions.

d) If the minimum distance metric $DM0=DM(SCA)$, and –.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 33, line 15.

At column 19, line 65, please add $- RVO(J) = RV(J) + \gamma - RV(M2) - RV(MX)$, where J is all other positions. - between “ $= RV(M3) + RV(MY) - RV(M2) - RV(MX)$; and ” and “e) If the minimum distance metric $DM0=DM(TCA)$, and” so that the corresponding phrase reads

– $= RV(M3) + RV(MY) - RV(M2) - RV(MX)$; and

$RVO(J) = RV(J) + \gamma - RV(M2) - RV(MX)$, where J is all other positions.

“e) If the minimum distance metric $DM0=DM(TCA)$, and –.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 33, line 30.

At column 20, line 19, please replace “ $= -RV(M0) + RV(M1)$ ” with $= -RV(M0) - RV(M1)$ - so that the corresponding phrase reads $= -RV(M0) - RV(M1) - RV(M3) - RV(MY)$; and –. The phrase is shown correctly in the application mailed on September 11, 2001, on page 34, line 14.

At column 20, line 20, please add $- RVO(J) = RV(J) + \gamma - RV(M3) - RV(MY)$, where J is all other positions. - above the line “f) If the minimum distance metric $DM0=DM(TCA)$, and” so that the corresponding phrase reads

– $RVO(J) = RV(J) + \gamma - RV(M3) - RV(MY)$, where J is all other positions.

f) If the minimum distance metric $DM0=DM(TCA)$, and –.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 34, line 15.

NOV 13 2001

At column 20, line 41, please replace " $= -RV(M2)$ " with $= RV(M2)$ - so that the corresponding phrase reads $= RV(M2) + RV(MX) - RV(M3) - RV(MY)$; and -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 34, line 29.

At column 20, line 42, please add $- RVO(J) = RV(J) + \gamma - RV(M3) - RV(MY)$, where J is all other positions. - above the line "The constant γ is determined by trial and error. A range of" so that the corresponding phrase reads

$- RVO(J) = RV(J) + \gamma - RV(M3) - RV(MX)$, where J is all other positions.

The constant γ is determined by trial and error. A range of -.

The phrase is shown correctly in the application mailed on June 30, 2004, on page 34, line 30.

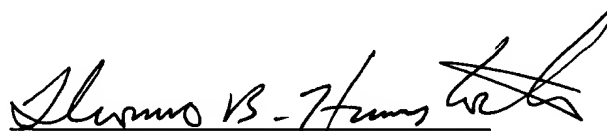
At column 23, line 43, please replace " $DM(TCA - DM(HDDV) - RV - (M0)_{input}$ " with $DM(TCA) - DM(HDDV) - RV(M0)_{input}$ - so that the corresponding phrase reads $- RVO(M0) = DM1 - DM0 - RV(M0)_{input} = DM(TCA) - DM(HDDV) - RV(M0)_{input}$ -. The phrase is shown correctly in the application mailed on September 11, 2001, on page 38, line 23.

Respectfully submitted

HAVERSTOCK & OWENS LLP

Dated: 11-3-06

By:



Thomas B. Haverstock

Reg. No. 32,571

Attorneys for Applicant(s)

CERTIFICATE OF MAILING (37 CFR § 1.8(a))

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HAVERSTOCK & OWENS LLP

Date: 11-3-06 By: 

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PATENT
Attorney Docket No.: AHA-03400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
William H. Thesling III et al.

Patent No.: 7,117,418 B2
Serial No.: 09/954,698

Issue Date.: October 3, 2006
Date Filed: September 11, 2001

For: **SOFT INPUT-SOFT OUTPUT
FORWARD ERROR
CORRECTION DECODING FOR
TURBO CODES**

) Group Art Unit: 2133
)
) Examiner: Chung, Phung M.
) **TRANSMITTAL LETTER**
)
) 162 North Wolfe Road
) Sunnyvale, California 94086
) (408) 530-9700
) Customer Number 28960

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Branch of the Patent Issue Division
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P.O. Box 1450
Alexandria, VA 22313-1450

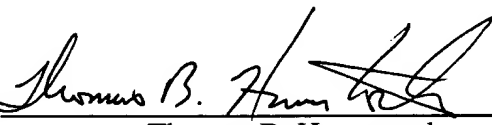
Sir:

Enclosed please find a request for certificate of correction of patent for USPTO mistake, including form PTO 1050 in duplicate for filing with the U.S. Patent and Trademark office

The Commissioner is authorized to charge any additional fee or credit any overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

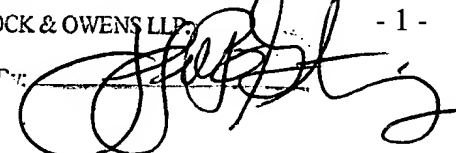
Respectfully submitted,
HAVERSTOCK & OWENS LLP

Dated: 11-3-06

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Thomas B. Haverstock
Reg. No.: 32,571

Attorneys for Applicants

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Date: 11-3-06  - 1 -

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William H. Thesling III et al.

Patent No.: 7,117,418 B2
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,117,418 B2
DATED : October 3, 2006
INVENTOR(S) : William H. Thesling, Sameep Dave

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby correct as shown below:

Page 1 of 3

IN THE SPECIFICATIONS

At column 5, line 45, please replace "(M0)+RM(M)+RV(M2)+RV(MX)" with - (M0)+RV(M1)+RV(M2)+RV(MX) -.

At column 6, line 1, please add a return between "222-230)+RV(MY);" and "RVO(M2)=DM2-DM0=DM".

At column 6, line 16, please replace "(M0)-RV(ML)-RV(M2)-RV(MX)" with - (M0)-RV(M1)-RV(M2)-RV(MX) -.

At column 6, line 20, please replace "(M0)-RV(M)-RV(M2)-RV(MX)" with - (M0)-RV(M1)-RV(M2)-RV(MX) -.

At column 6, line 22, please replace "(M0)-RV(M)-RV(M2)-RV(MX)" with - (M0)-RV(M1)-RV(M2)-RV(MX) -.

At column 6, line 48, please replace "(M0)-RV(ML)-(RV(M3))" with - (M0)-RV(M1)-(RV(M3)) -.

At column 6, line 51, please replace "(M0)-RV(M)-(RV(M3))" with - (M0)-RV(M1)-(RV(M3)) -.

At column 10, line 23, please replace "M4(position 12)" with - M4(position 12) -.

At column 11, line 8, please replace "RVO(bit 4)-0.3+RV(4)=-0.3-0.9=-1.2" with - RVO(bit 4)=-0.3+RV(4)=-0.3-0.9=-1.2 -.

At column 18, line 23, please replace "330where" with - 330 where -.

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,117,418 B2
DATED : October 3, 2006
INVENTOR(S) : William H. Thesling, Sameep Dave

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby correct as shown below:

Page 2 of 3

IN THE SPECIFICATIONS

At column 18, line 65, please add - $RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J is all other positions. - between " $= RV(M3) + RV(MY) + RV(M0) + RV(M1)$ "; and " and "b) If the minimum distance metric $DM0=DM(HDDV)$,".

At column 19, line 20, please add - $RVO(J) = RV(J) + \gamma + RV(M0) + RV(M1)$, where J is all other positions. - between " $= RV(M3) + RV(MY) + RV(M0) + RV(M1)$ "; and" and "c) If the minimum distance metric $DM0=DM(SCA)$, and".

At column 19, line 41, please replace " $= -RV(M3)$ " with $= RV(M3) -$.

At column 19, line 43, please add - $RVO(J) = RV(J) + \gamma - RV(M2) - RV(MX)$, where J is all other positions. - above the line "d) If the minimum distance metric $DM0=DM(SCA)$, and".

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Page 3 of 3

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